

CLAIMS:

What is claimed is:

1 1. A method of operating a hand-held mobile device, the method comprising:
2 displaying a softkey indicator on a display of the hand-held mobile
3 device, the softkey indicator indicating a corresponding softkey action;
4 displaying an input field on the display while displaying the softkey
5 indicator, the input field for receiving characters input by a user using an input
6 device of the hand-held mobile device;
7 detecting activation of the input field; and
8 in response to activation of the input field, automatically selecting a
9 softkey action previously associated with the input field and automatically
10 changing the softkey indicator to indicate the selected softkey action.

1 2. A method as recited in claim 1, wherein activation of the input field comprises
2 inputting one or more characters in the input field.

1 3. A method as recited in claim 2, wherein activation of the input field comprises
2 inputting one or more characters according to a predefined format in the input
3 field.

1 4. A method as recited in claim 1, wherein activation of the input field comprises
2 selecting the input field.

1 5. A method as recited in claim 1, wherein the method is included in a method of
2 executing a browser in the hand-held mobile device, the browser enabling a user
3 of the hand-held mobile device to navigate hyperlinked content on a data
4 network.

353
A1
1 6. A method as recited in claim 1, wherein the input field is a recipient identifier
2 field for receiving an identifier of a recipient of a communication to be initiated
3 from the hand-held mobile device, and wherein the softkey action is initiation of
4 the communication.

1 7. A method as recited in claim 1, wherein the communication is a telephone call,
2 and wherein the recipient field is a telephone number input field for receiving a
3 telephone number of party to be called.

1 8. A method of operating a browser in a hand-held mobile device, the method
2 comprising:
3 displaying a telephone number input field on a display of the hand-held
4 mobile device, the telephone number input field for receiving a telephone
5 number input by a user using an input device of the hand-held mobile device;
6 providing a softkey, including displaying a softkey indicator on the
7 display while displaying the telephone number input field, the softkey indicator
8 indicating a corresponding softkey action of a plurality of softkey actions of the
9 browser;

10 detecting activation of the telephone number input field; and
11 in response to activation of the telephone number input field,
12 automatically selecting a dial action to correspond to the softkey indicator and
13 automatically changing the softkey indicator to indicate the dial action, such that
14 the user can initiate a telephone call from the hand-held mobile device by
15 entering the telephone number in the telephone number input field and
16 activating the softkey, without additional input being required from the user to
17 initiate the telephone call.

1 9. A method as recited in claim 8, wherein the browser is for enabling a user of
2 the mobile telephone to navigate hyperlinked content on a data network.

1 10. A method as recited in claim 8, wherein activation of the telephone number
2 input field comprises inputting one or more characters in the input field.

1 11. A method as recited in claim 10, wherein activation of the telephone number
2 input field comprises inputting one or more characters according to a predefined
3 format in the telephone number input field.

1 12. A method as recited in claim 8, wherein activation of the input field
2 comprises selecting the telephone number input field.

1 13. A method as recited in claim 8, wherein the method is included in a method
2 of executing a browser in the hand-held mobile device, the browser enabling a

3 user of the hand-held mobile device to navigate hyperlinked content on a data
4 network.

1 14. A method of operating a mobile telephone, the method comprising:
2 executing a browser in the mobile telephone, the browser enabling a user
3 of the mobile telephone to navigate hyperlinked content on a data network,
4 wherein executing the browser includes

5 displaying a telephone number input field on a display of the
6 mobile telephone, the telephone number input field for receiving a telephone
7 number input by a user using an input device of the mobile telephone,
8 providing a softkey, including displaying a softkey indicator on the
9 display while displaying the telephone number input field, the softkey indicator
10 indicating a currently assigned one of a plurality of softkey actions of the
11 browser,

12 detecting activation of the telephone number input field, and
13 in response to activation of the telephone number input field,
14 automatically assigning a dial action to the softkey and automatically changing
15 the softkey indicator to indicate the dial action; and

16 receiving a user input activating the softkey while the dial action is
17 assigned to the softkey and a telephone number is entered in the telephone
18 number input field and, in response thereto, initiating a telephone call without
19 requiring additional input from the user.

1 15. A method as recited in claim 14, wherein activation of the telephone number
2 input field comprises inputting one or more characters in the input field.

1 16. A method as recited in claim 15, wherein activation of the telephone number
2 input field comprises inputting one or more characters according to a predefined
3 format in the telephone number input field.

1 17. A method as recited in claim 14, wherein activation of the input field
2 comprises selecting the telephone number input field.

1 18. A hand-held mobile device comprising:
2 a processor;
3 a display;
4 an input device; and
5 a storage device storing a browser executable by the processor, the
6 browser including a process which includes
7 displaying a telephone number input field on the display, the
8 telephone number input field for receiving a telephone number input by a user
9 using the input device;
10 providing a softkey, including displaying a softkey indicator on the
11 display while displaying the telephone number input field, the softkey indicator
12 indicating a corresponding softkey action of a plurality of softkey actions of the
13 browser;

14 detecting activation of the telephone number input field; and
15 in response to activation of the telephone number input field,
16 automatically selecting a dial action to correspond to the softkey indicator and
17 automatically changing the softkey indicator to indicate the dial action, such that
18 the user can initiate a telephone call from the hand-held mobile device by
19 entering the telephone number in the telephone number input field and
20 activating the softkey, without additional input being required from the user to
21 initiate the telephone call.

1 19. A method as recited in claim 18, wherein the hand-held mobile device is a
2 mobile telephone configured to operate on a wireless network.

1 20. A method as recited in claim 19, wherein the browser is for enabling a user of
2 the mobile telephone to navigate hyperlinked content on a data network.

1 21. A method as recited in claim 18, wherein activation of the telephone number
2 input field comprises inputting one or more characters in the input field.

1 22. A method as recited in claim 21, wherein activation of the telephone number
2 input field comprises inputting one or more characters according to a predefined
3 format in the telephone number input field.

1 23. A method as recited in claim 18, wherein activation of the input field
2 comprises selecting the telephone number input field.

1 24. A machine readable program storage medium having stored therein a
2 browser usable by a hand-held mobile device, the browser enabling a user of the
3 hand-held mobile device to navigate hyperlinked content on a data network,
4 wherein the browser, when executed on the hand-held mobile device, performs a
5 method comprising:

6 displaying a telephone number input field on a display of the hand-held
7 mobile device, the telephone number input field for receiving a telephone
8 number input by a user using an input device of the hand-held mobile device;
9 providing a softkey, including displaying a softkey indicator on the
10 display while displaying the telephone number input field, the softkey indicator
11 indicating a corresponding softkey action of a plurality of softkey actions of the
12 browser;

13 detecting activation of the telephone number input field; and
14 in response to activation of the telephone number input field,
15 automatically selecting a dial action to correspond to the softkey indicator and
16 automatically changing the softkey indicator to indicate the dial action, such that
17 the user can initiate a telephone call from the hand-held mobile device by
18 entering the telephone number in the telephone number input field and
19 activating the softkey, without additional input being required from the user to
20 initiate the telephone call.

1 25. A machine readable program storage medium as recited in claim 24, wherein
2 the hand-held mobile device is a mobile telephone configured to operate on a

3 wireless network.

1 26. A machine readable program storage medium as recited in claim 25, wherein
2 the browser is for enabling a user of the mobile telephone to navigate
3 hyperlinked content on a data network.

1 27. A machine readable program storage medium as recited in claim 24, wherein
2 activation of the telephone number input field comprises inputting one or more
3 characters in the input field.

1 28. A machine readable program storage medium as recited in claim 27, wherein
2 activation of the telephone number input field comprises inputting one or more
3 characters according to a predefined format in the telephone number input field.

1 29. A machine readable program storage medium as recited in claim 24, wherein
2 activation of the input field comprises selecting the telephone number input
3 field.

1 30. A hand-held mobile device comprising:
2 a display;
3 an input device;
4 means for displaying a softkey indicator on the display, the softkey
5 indicator indicating a corresponding softkey action;
6 means for displaying an input field on the display while displaying the

7 softkey indicator, the input field for receiving characters input by a user using
8 the input device;

9 means for detecting activation of the input field; and

10 means for responding to activation of the input field by automatically
11 selecting a softkey action previously associated with the input field and
12 automatically changing the softkey indicator to indicate the selected softkey
13 action.

1 31. A hand-held mobile device as recited in claim 30, wherein activation of the
2 input field comprises inputting one or more characters in the input field.

1 32. A hand-held mobile device as recited in claim 31, wherein activation of the
2 input field comprises inputting one or more characters according to a predefined
3 format in the input field.

1 33. A hand-held mobile device as recited in claim 30, wherein activation of the
2 input field comprises selecting the input field.

1 34. A hand-held mobile device as recited in claim 30, wherein the input field is a
2 recipient identifier field for receiving an identifier of a recipient of a
3 communication to be initiated from the hand-held mobile device, and wherein
4 the softkey action is initiation of the communication.

1 35. A hand-held mobile device as recited in claim 34, wherein the hand-held

3-49
A1

2 mobile device comprises a mobile telephone, wherein the communication is a
3 telephone call, and wherein the recipient field is a telephone number input field
4 for receiving a telephone number of party to be called using the mobile
5 telephone.

1 36. A method of operating a hand-held mobile device, the method comprising:
2 communicating with a remote processing system over a wireless network;
3 acquiring information associated with a current location of the hand-held
4 mobile device; and
5 displaying a hyperlink on a display of the hand-held mobile device based
6 on the acquired information, the hyperlink indicating a location of the hand-held
7 mobile device to a user of the hand-held mobile device.

1 37. A method as recited in claim 36, further comprising:
2 receiving a user input activating the hyperlink; and
3 in response to the user input, accessing and displaying on the display
4 content specific to the location of the hand-held mobile device.

1 38. A method as recited in claim 36, further comprising:
2 receiving a user input activating the hyperlink; and
3 in response to the user input, accessing and displaying on the display a
4 plurality of menu items, wherein each of the menu items is associated with
5 content of a different type, specific to the location of the hand-held mobile

6 device.

1 39. A method as recited in claim 36, wherein the hyperlink, as displayed,
2 comprises a name of a geographic location or area.

1 40. A method as recited in claim 36, wherein the hyperlink, as displayed,
2 comprises a name of a point of interest.

1 41. A method as recited in claim 36, wherein said acquiring information
2 associated with a current location of the hand-held mobile device comprises
3 receiving the information from a location device within the hand-held mobile
4 device.

1 42. A method as recited in claim 36, wherein said acquiring information
2 associated with a current location of the hand-held mobile device comprises
3 receiving the information from the remote processing system over the wireless
4 network.

1 43. A machine readable program storage medium having stored therein a
2 browser usable by a hand-held mobile device, the browser enabling a user of the
3 hand-held mobile device to navigate hyperlinked content on a data network,
4 wherein the browser, when executed on the hand-held mobile device, performs a
5 method comprising:

6 communicating with a remote processing system over a wireless network;

7 acquiring information associated with a current location of the hand-held
8 mobile device; and
9 displaying a hyperlink on a display of the hand-held mobile device based
10 on the acquired information, the hyperlink indicating a location of the hand-held
11 mobile device to a user of the hand-held mobile device.

1 44. A machine readable program storage medium as recited in claim 43, wherein
2 the method further comprises:
3 receiving a user input activating the hyperlink; and
4 in response to the user input, accessing and displaying on the display
5 content specific to the location of the hand-held mobile device.

1 45. A machine readable program storage medium as recited in claim 43, wherein
2 the method further comprises:
3 receiving a user input activating the hyperlink; and
4 in response to the user input, accessing and displaying on the display a
5 plurality of menu items, wherein each of the menu items is associated with
6 content of a different type, specific to the location of the hand-held mobile
7 device.

1 46. A machine readable program storage medium as recited in claim 43, wherein
2 the hyperlink, as displayed, comprises a name of a geographic location or area.

1 47. A machine readable program storage medium as recited in claim 43, wherein

2 the hyperlink, as displayed, comprises a name of a point of interest.

1 48. A machine readable program storage medium as recited in claim 43, wherein
 2 said acquiring information associated with a current location of the hand-held
 3 mobile device comprises receiving the information associated with a current
 4 location of the hand-held mobile device from a location device within the hand-
 5 held mobile device.

1 49. A machine readable program storage medium as recited in claim 43, wherein
 2 said acquiring information associated with a current location of the hand-held
 3 mobile device comprises receiving the information associated with a current
 4 location of the hand-held mobile device from the remote processing system over
 5 the wireless network.

1 50. A hand-held mobile device comprising:
 2 means for communicating with a remote processing system over a
 3 wireless network;
 4 means for acquiring information associated with a current location of the
 5 hand-held mobile device; and
 6 means for displaying a hyperlink on a display of the hand-held mobile
 7 device based on the acquired information, the hyperlink indicating a location of
 8 the hand-held mobile device to a user of the hand-held mobile device.

1 51. A hand-held mobile device as recited in claim 50, further comprising:

402200 59201600

2 means for receiving a user input activating the hyperlink; and
3 means for accessing and displaying on the display content specific to the
4 location of the hand-held mobile device in response to the user input.

1 52. A hand-held mobile device as recited in claim 50, further comprising:
2 means for receiving a user input activating the hyperlink; and
3 means for accessing and displaying on the display a plurality of menu
4 items in response to the user input, wherein each of the menu items is associated
5 with content of a different type, specific to the location of the hand-held mobile
6 device.

1 53. A hand-held mobile device as recited in claim 50, wherein the hyperlink, as
2 displayed, comprises a name of a geographic location or area.

1 54. A hand-held mobile device as recited in claim 50, wherein the hyperlink, as
2 displayed, comprises a name of a point of interest.

1 55. A hand-held mobile device as recited in claim 50, wherein said means for
2 acquiring information associated with a current location of the hand-held mobile
3 device comprises a location device within the hand-held mobile device.

1 56. A hand-held mobile device as recited in claim 50, wherein said means for
2 acquiring information associated with a current location of the hand-held mobile
3 device comprises means for receiving the information associated with a current

4 location of the hand-held mobile device from the remote processing system over
5 the wireless network.

1 57. A mobile telephone comprising:

2 a processor;

3 a display;

4 voice circuitry to process telephony signals;

5 an input device; and

6 a storage device storing a browser which, when executed by the processor,

7 performs a process which includes

8 enabling a user of the mobile telephone to navigate hypermedia

9 content;

10 acquiring information associated with a current location of the

11 mobile telephone; and

12 displaying a hyperlink on a display of the mobile telephone based

13 on the acquired information, the hyperlink indicating a location of the mobile

14 telephone to the user.

1 58. A mobile telephone as recited in claim 57, wherein said process further

2 comprises

3 receiving a user input activating the hyperlink; and

4 in response to the user input, accessing and displaying on the display

5 content specific to the location of the mobile telephone.

59. A mobile telephone as recited in claim 57, wherein said process further comprises:

receiving a user input activating the hyperlink; and

in response to the user input, accessing and displaying on the display a plurality of additional hyperlinks, wherein each of the additional hyperlinks is a hyperlink to content of a different category and specific to the location of the mobile telephone.

60. A mobile telephone as recited in claim 57, wherein the hyperlink, as displayed, comprises a name of a geographic location or area.

61. A mobile telephone as recited in claim 57, wherein the hyperlink, as displayed, comprises a name of a point of interest.

62. A mobile telephone as recited in claim 57, further comprising a location device, wherein said acquiring information associated with a current location of the mobile telephone comprises receiving the information from the location device.

63. A mobile telephone as recited in claim 57, wherein said acquiring information associated with a current location of the mobile telephone comprises receiving the information from a remote server over a wireless network.

64. A method of operating a hand-held mobile device, the method comprising:

2 displaying, on a display of the hand-held mobile device, an input field
3 and a menu including a plurality of actions that can be performed using
4 characters input to the input field;
5 receiving a user input representing a single action by a user, the user input
6 designating one of the actions in the menu and, in response to the user input,
7 selecting said one of the actions, and
8 activating the input field to enable the user to input characters
9 associated with said one of the actions.

1 65. A method as recited in claim 64, wherein the hand-held mobile device is a
2 mobile telephone configured to operate on a wireless network.

1 66. A method as recited in claim 65, wherein the browser is for enabling a user of
2 the mobile telephone to navigate hyperlinked content on a data network.

1 67. A machine readable program storage medium having stored therein a
2 browser usable by a hand-held mobile device, the browser enabling a user of the
3 hand-held mobile device to navigate hyperlinked content on a data network,
4 wherein the browser, when executed on the hand-held mobile device, performs a
5 method comprising:

6 displaying, on a display of the hand-held mobile device, an input field
7 and a menu including a plurality of actions that can be performed using
8 characters input to the input field;

004065-082701
FD-280 (Rev. 5-22-64)

receiving a user input representing a single action by a user, the user input
designating one of the actions in the menu and, in response to the user input,
selecting said one of the actions, and
activating the input field to enable the user to input characters
associated with said one of the actions.

68. A machine readable program storage medium as recited in claim 67, wherein
the hand-held mobile device comprises a mobile telephone configured to operate
on a wireless network.

69. A machine readable program storage medium as recited in claim 68, wherein
the browser is for enabling a user of the mobile telephone to navigate
hyperlinked content on a data network.

70. A mobile telephone comprising:
a processor;
a display;
voice circuitry to process telephony signals;
an input device; and
a storage device storing software which, when executed by the processor,
performs a process which includes
displaying on the display an input field and a menu including a
plurality of actions that can be performed using characters input to the input

10 field,
11 receiving a user input representing a single action by a user, the
12 user input designating one of the actions in the menu and, in response to the user
13 input,
14 selecting said one of the actions, and
15 activating the input field to enable the user to input
16 characters associated with said one of the actions.

1 71. A mobile telephone as recited in claim 70, wherein the browser is for
2 enabling a user of the mobile telephone to navigate hyperlinked content on a
3 data network.

10/22/00 10:22:00